

## EXECUTIVE SUMMARY

Prepared August 10, 1994

**Mine Name:** Calliham Mine  
**Operator:** Umetco Minerals Corporation  
2754 Compass Drive, Suite 280  
Grand Junction, CO 81506  
**Telephone:** (303) 245-3700  
**Contact Person:** Robert F. Barnett (303)677-2711

**I.D. No:** M/037/023  
**County:** San Juan  
**New/Existing:** Existing  
**Mineral Ownership:** BLM, FEE  
**Surface Ownership:** BLM, FEE  
**Lease No.(s):** \_\_\_\_\_  
**Permit Term:** Life of mine

**Life of Mine:** 10 years

**Legal Description:** NE/4 NW/4 and NW/4 NE/4 SEC. 33; NW/4 NE/4 SEC. 28; SW/4 SE/4 SEC. 21; T32S, R26E, SLBM

**Mineral(s) to be Mined:** Uranium, Vanadium

**Mining Methods:** underground random room and pillar mining.

**Acres to be Disturbed:** 20.2

**Present Land Use:** mining, dry rangeland

**Postmining Land Use:** dry rangeland, wildlife

**Variances from Reclamation Standards (Rule R647) Granted:** NONE IN WRITING - variance for topsoil salvage in areas of pre-act disturbances is implied.

### Soils and Geology:

**Soil Description:** UNKNOWN . Soils at the pond site consist of two layers. A top layer of uniformly graded sandy loam 1 to 2 feet in depth. A lower layer of clay loam of unknown thickness.

**pH:** soil 7.8 - 8.2; waste rock 8.2 -8.6

**Special Handling Problems:** UNKNOWN

**Geology Description:** mining in the Saltwash member of the Morrison formation

### Hydrology:

**Ground Water Description:** UNKNOWN

**Surface Water Description:** UNKNOWN. No culinary wells or water sources are located within

one mile of the evaporation ponds.

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**Water Monitoring Plan:** UNKNOWN. Operator to annually report total water stored, maximum water level and reserve capacity for evaporation ponds to Water Pollution Control.

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**Ecology:**

**Vegetation Type(s); Dominant Species:** Juniper, Pinyon, Sagebrush, Indian Ricegrass, Crested Wheatgrass

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**Percent Surrounding Vegetative Cover:** approximately 5% to 10%

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**Wildlife Concerns:** UNKNOWN

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**Surface Facilities:** access road, mine portal, ventilation boreholes, powder magazine, five metal buildings, ore pad, ore stockpile, waste dump, two mine water evaporation ponds.

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**Mining and Reclamation Plan Summary: . . . .**

**During Operations:**

The applicant will employ underground random room and pillar mining techniques subject to inspection by MSHA. Because of the pre-Act status of the mine site, no topsoil had been removed or stockpiled prior to disturbance. Where new surface disturbances are anticipated, these concerns will be implemented at each mine site. Where water flows are encountered during mining and it becomes necessary to discharge at the surface, retention ponds will be or have been constructed in accordance with EPA and State Health requirements. Any surface water encountered at the mine sites (ephemeral drainages) will be properly routed employing the use of culverts and/or diversion systems. Ventilation boreholes will be employed and used additionally as emergency escapeways. Waste rock will be stockpiled at the mine site and allowed to stabilize at a natural angle of repose. Ore will also be stockpiled at each site. Office, shop, warehouse and other ancillary facilities have been constructed in support of the mining operations. Storage areas will be maintained on site for equipment, scrap and disposable materials.

**After Operations:**

All buildings, structures, scrap piles, refuse and equipment will be removed from the sites or buried in an environmentally approved manner. Mine portals, boreholes and drill holes will be sealed permanently. Declines will be filled in. Waste rock piles will be regraded with contours developed, corners rounded and slopes stabilized. All naturel drainages will be returned to a natural configuration or channel. Mine water impounding structures will be

regraded. Roads, unless otherwise requested by the surface land owner, will be returned to a natural condition by recontouring. Along with other surface disturbances these areas will be reseeded according to an approved revegetation plan. After final reclamation, monitoring for three years will ensure that the mine site areas have been stabilized to an acceptable, approximate predisturbed condition.

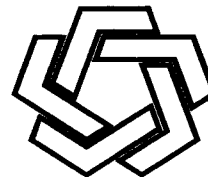
**Surety:**

**Amount:** \$39,400 (1999 dollars)

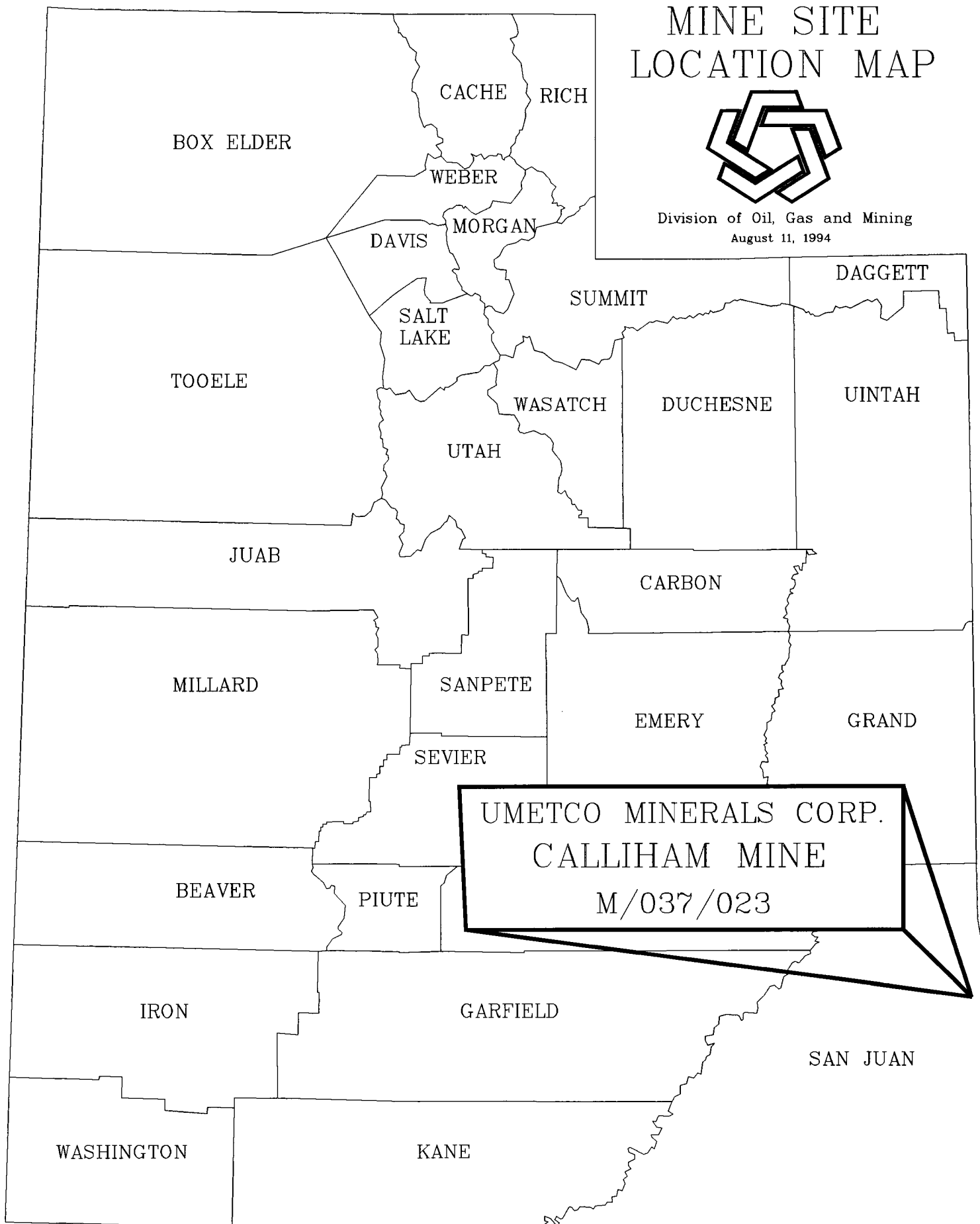
**Form:** Surety Bond

**Renewable Term:** 5-year review

# MINE SITE LOCATION MAP



Division of Oil, Gas and Mining  
August 11, 1994





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M/037/023  
CALLIHAM

4100 ft SE  
(SUMMIT POINT)

PIUTE KNOLL

2'30" R 20 W 2 710 000 FEET (UTAH)

11 EAST SUMMIT

